Abstract

Fuel cell with fuel delivery device and method of manufacture

The invention relates to a fuel cell with

- a first electrode (3) and a second electrode (4), one of which is produced as the cathode and the other as the anode,
- a layer (5) permeable at least to protons that has catalytic activity, or an additional catalytic material in the region between the first electrode (3) and the second electrode (4),
- a fuel delivery device to feed in a fuel (H_2), and
- a reactant delivery device to feed in a reactant (O_2) that reacts with protons from the fuel (H_2) to generate current, with the fuel delivery device and the reactant delivery device being positioned on the side of the first electrode and on the side of the second electrode, respectively.

To be able to provide structurally small fuel cells with a limited current capacity, it is proposed that the fuel (H_2) to generate a given amount of current be integrated into the material of an electrode designed as a fuel delivery device (3) and/or in a layer adjacent to it. Alternatively, the reactant can also be introduced correspondingly into a reactant delivery device of this type.

2 Figures